

What is claimed is:

1. A process gas line for a gas panel assembly for handling a plurality of process gases, comprising:

5 a process gas inlet for receiving process gas from a process gas source;

10 a one-piece manifold having at least one laterally-extending manifold face and having a manifold inlet in communication with the gas inlet to receive the process gas, the one-piece manifold having an internal gas pathway for carrying the process gas generally in a lateral direction from the manifold inlet to a manifold outlet, the manifold having a plurality of device connection ports along the manifold face in communication with the internal gas pathway for mounting devices extending from the manifold face and in gas flow communication with the connection ports; and

15 a process gas outlet connected to the manifold outlet.

2. A gas panel for handling plural process gases, comprising:

20 a plurality of one-piece manifold bodies, each of said manifold bodies having thereon at least three identical component receiving stations, each of said component receiving stations having a gas inlet and a gas outlet, the gas outlet from a first component receiving station of the plurality being connected by a permanent connection within the manifold to a gas inlet to a neighboring component receiving station;

25 a plurality of gas components, each of said gas components being connected to a respective receiving station on one of the manifold blocks, said gas components comprising at least one valve and at least one mass flow controller.

3. A gas panel according to claim 2, wherein one of said gas components comprises a purifier.

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4. A gas panel according to claim 2, wherein one of said gas components comprises a filter.

5. A gas panel according to claim 2, wherein one of said gas components comprises a pressure transducer.

5 6. A gas panel according to claim 2, wherein said valve comprises a pneumatic valve.

7. A gas panel according to claim 2, wherein said valve comprises a manual valve.

8. A gas panel according to claim 2, wherein one of  
10 said gas components comprises a pressure regulator.

9. A gas panel comprising:

a plurality of one-piece manifold bodies, each of said manifold bodies having thereon at least three identical component receiving stations, each of said component  
15 receiving stations having a gas inlet and a gas outlet, the gas outlet from a first component receiving station of the plurality being connected by a permanent connection with the manifold to a gas inlet to a neighboring component receiving station;

20 a gas shut-off valve connected to one of the receiving stations on one of the manifold blocks; and

a mass flow controller connected to receive gas from the gas shut-off valve.

10. A gas panel according to claim 9, further  
25 comprising a purifier connected to one of said one-piece manifold bodies.

11. A gas panel according to claim 9, further comprising a filter connected to one of said one-piece manifolds.

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12. A gas panel according to claim 9, further comprising a pressure transducer connected to one of said one-piece manifolds.

13. A gas panel according to claim 9, further  
5 comprising a pressure regulator connected to one of said one-piece manifolds.

14. A gas panel enclosure comprising:

a floor;

10 a plurality of rods extending from a floor thereof, each of said upwardly extending rods being adjustable with respect to said floor; and

a one-piece gas panel manifold positioned on the rods for adjustment with respect to said floor, said gas panel manifold having a plurality of active device receiving  
15 stations thereon so that the active device portions of the upper surface of the manifold may be aligned in a plane with other manifolds positioned within the gas panel.

15. A gas panel comprising:

a plurality of gas inlets;

20 a one-piece gas panel manifold connected to each inlet of each of said plurality of said gas inlets, each of said one-piece gas panel manifolds defining a substantially transverse gas path therethrough and having a plurality of active device stations positioned across a top face  
25 thereof;

a plurality of removable active devices removably connected to each of the active device stations for receiving said gas, each of said removable active devices being connected by a single device connector to couple both  
30 to inlet and outlet ports of the active device station; and

a plurality of gas outlets connected to the one-piece manifolds.

17. A gas panel according to claim 16, wherein said  
5 removable active devices further comprise a manual shut-off  
valve.

19. A flange for coupling to an active-site of a one-piece manifold, comprising:

a fastener retained with the base for coupling with the one-piece manifold when the base is assembled with the one-piece manifold.

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a base;
a keeper mounted on the base;
a seal held by the keeper;
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a retainer for holding the fastener to the base prior to assembly of the base with the manifold.

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